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THE PLANT DISEASE BULLETIN

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THE PLANT DISEASE SURVEY

SUPPLEMENT 18

Crop Losses from Plant Diseases in the

United States in 1920

July 1, 1921

BUREAU OF PLANT INDUSTRY

UNITED STATES DEPARTMENT OF AGRICULTURE

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PLANT DISEASE SURVEY

1920

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CROP LOSSES FROM PLANT DISEASES IN THE UNITED STATES IN 1920.

Supplement 18. July 1, 1921

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Foreword

In preparing the 1920 crop loss estimates the usual sources of information were utilized and the same methods followed as in 1918 and 1919. The symbols adopted last year also have been employed and a condensed key to these is given here. (For more detailed explanation see Pl. Dis. Bul. Suppl. 12: 308. 1920).

- = No data.
t = Trace, less than 1%.
+ = Loss occurred but amount not known.
* = Occurrence.
*- = Occurrence, no data as to loss.
*0 = Occurrence, but no loss.

Crop losses from plant diseases in 1920.

Although the loss to the cereal crops was not so great in 1920 as in 1919, the toll taken by diseases of other crops, such as potatoes, beans, peaches, and apples, was in excess of that taken in 1919, so that the total disease losses for the eleven crops listed here average about the same for the two years.

The following table gives a comparison of the estimated total disease losses of the years 1919 and 1920.

Table 107. Estimated losses to eleven crops from plant diseases in 1919 and 1920.

Crop	1920 % loss	1920 Bushels loss (000 omitted	1919 % loss	1919 Bushels loss (000 omitted	Crop	1920 % loss	1920 Bushels loss (000 omitted	1919 % loss	1919 Bushels loss (000 omitted
Wheat	11.7	104,129	16.96	192,275	Sweet potato	25.8	39,150	36.23	58,841
Rye	1.98	1,406	1.74	1,572	Dry beans	4.3	404	3.7	435
Barley	4.6	9,747	5.9	10,445	Cotton	13.4	2,002*	13.59	1,742*
Oats	4.8	78,199	5.9	78,353	Peach	19.4	10,505	12.04	7,026
Corn	6.39	220,862	6.41	200,050	Apple	16.5	47,474	11.37	18,920
Potato	21.7	119,474	19.5	86,997					

*Bales.

WHEAT

Estimated reduction in yield of wheat due to scab (*Fusarium* sp.), leaf rust (*Puccinia triticina*), stem rust (*Puccinia graminis*), bunt (*Tilletia laevis* and *T. tritici*), loose smut (*Ustilago tritici*), and other diseases, 1920.

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to diseases. Scab %	Scab Bushels (000 omitted)	Leaf rust %	Leaf rust Bushels (000 omitted)	Stem rust %	Stem rust Bushels (000 omitted)	Bunt %	Bunt Bushels (000 omitted)	Loose smut %	Loose smut Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases. %	All diseases. Bushels (000 omitted)
Me.	159	–	–	–	–	–	–	–	–	1.	2	–	–	1.	2
N. H.	–	–	–	–	–	–	–	–	–	2.	+	–	–	2.	+
Vt.	209	–	–	t	+	t	+	0	0	2.	4	–	–	2. +	4+
Mass.	–	–	–	–	–	–	–	–	–	2.	+	–	–	2.	+
R. I.	–	–	–	–	–	–	–	–	–	2.	+	–	–	2.	+
Conn.	–	–	–	–	–	–	–	–	–	1.	+	–	–	1.	+
N. Y.	10,998	t	+	t	+	t	+	t	+	3.	344	1.	114	4. +	458+
N. J.	1,520	1.	16	t	+	t	+	1.	16	3.	49	2.	33	7. +	114+
Pa.	25,284	1.	265	t	+	t	+	t	+	2.5	661	1.	265	4.5+	1191+
Dela.	2,040	.5	11	.2	4	t	+	1.	22	2.	43	1.5	32	5.2+	112+
Md.	11,390	1.	123	1.5	185	t	+	1.	123	3.5	431	.5	62	7.5+	924+
Va.	11,425	t	+	2.	247	t	+	.5	61	2.8	345	2.	247	7.3+	900+
W. Va.	4,250	1.	48	t	+	3.	145	2.	97	5.	242	1.	48	12. +	580+
N. C.	8,471	t	+	3.	282	t	+	2.	188	4.	377	1.	94	10. +	941+
S. C.	1,760	t	+	2.	38	t	+	1.	19	3.	56	1.	19	7. +	132+
Ga.	2,110	t	+	2.	46	2.	46	1.	23	3.	69	.5	12	8.5+	196+
Ohio	28,698	.5	151	t	+	t	+	.5	151	2.	604	2.	604	5. +	1,510+
Ind.	23,540	.5	124	.1	25	.1	25	.3	74	2.	495	2.	495	5.	1,238
Ill.	40,670	2.	884	.5	221	.5	221	t	+	3.	1,326	2.	884	8. +	3,536+
Mich.	14,275	t	+	t	+	8.	1,298	3.	487	1.	162	t	+	12. +	1,947+
Wis.	5,152	1.5	113	t	+	30.	2,273	t	+	.5	38	t	+	32. +	2,424+
Minn.	29,116	2.	889	t	+	30.	13,336	t	+	.5	222	2.	889	34.5+	15,336+
Iowa	13,011	.5	72	1.	144	7.	1,006	.5	72	.5	72	t	+	9.5+	1,366+
Mo.	32,721	2.	693	1.	346	.5	173	1.	346	1.	346	t	+	5.5+	1,904+

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to diseases. Scab %	Scab Bushels (000 omitted)	Leaf rust %	Leaf rust Bushels (000 omitted)	Stem rust %	Stem rust Bushels (000 omitted)	Bunt %	Bunt Bushels (000 omitted)	Loose smut %	Loose smut Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases %	All diseases Bushels (000 omitted)
N. D.	68,400	1.	918	1.5	1,377	20.	18,363	.5	459	.5	459	2.	1,836	25.5	23,412
S. D.	26,282	15.	6,410	1.	427	20.	8,547	.5	214	1.	427	1.	427	38.5	16,452
Nebr.	60,480	1.	720	1.	720	12.	8,640	1.	720	1.	720	-	-	18.	11,520
Kans.	137,056	t	+	t	+	t	+	5.	7,213	t	+	-	-	5. +	7,213+
Ky.	5,610	2.	119	1.	59	t	+	.5	30	1.	59	1.	59	5.5+	326+
Tenn.	4,028	t	+	t	+	2.	86	1.	43	3.	128	t	+	6. +	257+
Ala.	653	t	+	2.	14	1.	7	1.	7	2.	14	t	+	6. +	42+
Miss.	100	t	+	4.	4	t	+	1.	1	1.5	2	t	+	6.5+	7+
La.	-	-	-	t	+	-	-	-	-	t	+	t	+	+	+
Texas	15,925	1.-	168	1.	169	1.	169	.5	84	2.	337	t	+	5.5+	927+
Okla.	46,240	t	+	2.	984	t	+	1.	492	1.	492	2.-	983	6. +	2,951+
Ark.	1,197	t	+	2.	26	t	+	3.-	39	3.	40	1.	13	9. +	118+
Mont.	19,850	0	0	0	0	0	0	4.	845	2.	422	t	+	6. +	1,267+
Wyo.	5,080	-	-	-	-	t	+	-	-	-	-	-	-	+	+
Colo.	22,821	-	-	t	+	1.	233	1.	233	t	+	-	-	2. +	466+
N.Mex.	6,375	-	-	t	+	t	+	-	-	t	+	-	-	+	+
Ariz.	864	-	-	t	+	5.	47	2.	19	1.	9	-	-	8. +	75+
Utah	5,366	0	0	t	+	5.	288	1.	58	1.	58	*-	-	7. +	404+
Nev.	420	-	-	t	+	t	+	1.	4	t	+	-	-	1. +	4+
Ida.	23,600	-	-	t	+	t	+	2.	502	2.	502	2.	502	6. +	1,506+
Wash.	37,982	-	-	t	+	t	+	2.	787	.5	197	1.	394	3.5+	1,378+
Ore.	22,900	-	-	t	+	t	+	2.	472	t	+	1.	230	3. +	708+
Calif.	9,100	-	-	t	+	t	+	2.	187	t	+	1.	94	3. +	281+
U. S.	787,128	1.3	11,724	.6	5,318	6.2	54,903	1.6	14,088	1.1	9,754	.9	8,342	11.7	104,129

RYE

Estimated reduction in yield of rye due to smut (*Ustilago* sp.), ergot (*Claviceps purpurea*), leaf rust (*Puccinia dispersa*), stem rust (*Puccinia graminis*), and other diseases, 1920.

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to diseases.											
		Smut		Ergot		Leaf rust		Stem rust		Other diseases		All diseases.	
		%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)	%	Bushels (000 omitted)
Vt.	20	–	–	–	–	–	–	–	–	–	–	–	–
Mass.	105	t	+	–	–	t	+	–	–	t	+	+	+
Conn.	140	–	–	t	+	t	+	–	–	–	–	+	+
N. Y.	1,872	t	+	t	+	t	+	t	+	t	+	+	+
N. J.	1,155	t	+	–	–	–	–	t	+	–	–	+	+
Pa.	2,656	t	+	.5	13	t	+	–	–	t	+	.5+	13+
Del.	60	–	–	–	–	t	+	–	–	–	–	+	+
Md.	462	t	+	0	0	1.	5	t	+	–	–	1. +	5+
Va.	864	t	+	t	+	t	+	t	+	t	+	+	+
W. Va.	165	–	–	t	+	t	+	–	–	–	–	+	+
N. C.	912	–	–	–	–	–	–	–	–	–	–	–	–
S. C.	264	–	–	–	–	1.	3	–	–	–	–	1.	3
Ga.	290	1.	3	–	–	2.	6	2.	6	t	+	5. +	15+
Ohio	1,152	–	–	.5	6	t	+	–	–	.5	6	1. +	12+
Ind.	4,340	.1	4	t	+	t	+	t	+	–	–	.1+	4+
Ill.	3,276	t	+	t	+	–	–	t	+	–	–	+	+
Mich.	9,702	–	–	t	+	t	+	t	+	–	–	+	+
Wis.	7,728	t	+	.5	41	t	+	5.	411	.5	41	6. +	493+
Minn.	8,160	1.	85	1.	85	t	+	t	+	1.5	126	3.5+	296+
Iowa	1,071	t	+	t	+	.5	5	t	+	–	–	.5+	5+
Mo.	600	–	–	t	+	–	–	t	+	–	–	+	+

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Smut %	Smut Bushels (000 omitted)	Ergot %	Ergot Bushels (000 omitted)	Leaf rust %	Leaf rust Bushels (000 omitted)	Stem rust %	Stem rust Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases. %	All diseases. Bushels (000 omitted)
N. D.	9,340	–	–	.2	19	t	+	–	–	–	–	.2+	19+
S. D.	4,320	–	–	1.	49	–	–	10.	485	–	–	11.	534
Nebr.	3,722	–	–	t	+	t	+	t	+	–	–	+	+
Kans.	1,612	–	–	–	–	t	+	–	–	–	–	+	+
Ky.	480	–	–	.2	1	t	+	–	–	–	–	.2+	1+
Tenn.	300	0	0	0	0	2.	6	–	–	t	+	2. +	6+
Ala.	44	–	–	–	–	–	–	–	–	–	–	–	–
Miss.	–	–	–	–	–	t	+	–	–	–	–	+	+
La.	–	–	–	–	–	t	+	–	–	–	–	+	+
Texas	48	t	+	–	–	–	–	t	+	–	–	+	+
Okla.	375	–	–	–	–	t	+	t	+	–	–	+	+
Ark.	40	–	–	t	+	–	–	t	+	–	–	+	+
Mont.	880	0	0	0	0	0	0	t	+	t	+	+	+
Wyo.	540	–	–	–	–	–	–	–	–	–	–	–	–
Colo.	1,357	–	–	–	–	–	–	–	–	–	–	–	–
Utah	124	0	0	t	+	–	–	t	+	–	–	+	+
Ida.	252	–	–	–	–	–	–	t	+	–	–	+	+
Wash.	370	–	–	–	–	–	–	–	–	–	–	–	–
Ore.	520	0	0	0	0	0	0	0	0	–	–	–	–
Calif.	–	–	–	–	–	t	+	t	+	–	–	+	+
U. S.	69,318	.13	92	.3	214	.04	25	1.27	902	.24	173	1.98	1406

BARLEY

Estimated reduction in yield of barley due to stripe (*Helminthosporium gramineum*), loose smut (*Ustilago nuda*), covered smut (*Ustilago hordei*), leaf rust (*Puccinia simplex*), stem rust (*Puccinia graminis*), and other diseases, 1920.

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Stripe %	Stripe Bushels (000 omitted)	Loose smut %	Loose smut Bushels (000 omitted)	Covered smut %	Covered smut Bushels (000 omitted)	Leaf rust %	Leaf rust Bushels (000 omitted)	Stem rust %	Stem rust Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases %	All diseases Bushels (000 omitted)
Me.	104	–	–	–	–	–	–	–	–	–	–	–	–	–	–
N. H.	27	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Vt.	336	t	+	2.	7	2.	7	t	+	t	+	–	–	4. +	14+
N. Y.	3,480	t	+	2.	73	1.	36	t	+	t	+	1.	36	4. +	145+
N. J.	–	–	–	2.	+	t	+	–	–	–	–	–	–	2. +	+
Pa.	480	–	–	2.	10	t	+	–	–	–	–	–	–	2. +	10+
Md.	165	–	–	3.	5	1	2	t	+	–	–	–	–	4. +	7+
Va.	405	t	+	5.	21	t	+	t	+	t	+	–	–	5. +	21+
Ohio	2,825	1.	29	2.	59	1.	29	t	+	–	–	–	–	4. +	117+
Ind.	2,025	1.	21	2.	43	1.	21	–	–	t	+	1.	21	5. +	106+
Ill.	6,080	1.	62	1.	62	.5	31	t	+	t	+	–	–	2.5+	155+
Mich.	6,240	1.	63	.5	32	.5	32	t	+	–	–	–	–	2. +	127+
Wis.	15,913	t	+	.3	52	.2	35	t	+	3.	522	5.	869	8.5+	1,478+
Minn.	25,000	1.	279	.5	140	1.5	419	*0	0	5.	1397	2.5	698	10.5+	2,933+
Iowa	7,810	2.	196	1.	98	.5	49	t	+	17.	1670	–	–	20.5+	2,013+
Mo.	224	t	+	1.5	3	1.	2	–	–	–	–	–	–	2.5+	5+
N. D.	22,680	t	+	t	+	.5	114	t	+	t	+	–	–	.5+	114+
S. D.	26,825	.5	136	.5	136	.5	136	–	–	–	–	–	–	1.5	408
Nebr.	7,424	t	+	1.	75	.5	38	–	–	t	+	–	–	1.5+	113+
Kans.	21,285	–	–	2.	443	2.	443	–	–	t	+	–	–	4. +	886+

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Stripe %	Stripe Bushels (000 omitted)	Loose smut %	Loose smut Bushels (000 omitted)	Covered smut %	Covered smut Bushels (000 omitted)	Leaf rust %	Leaf rust Bushels (000 omitted)	Stem rust %	Stem rust Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases %	All diseases Bushels (000 omitted)
Ky.	112	–	–	3.	3	1.	1	t	+	–	–	–	–	4. +	4+
Tenn.	225	t	+	5.	12	2.	5	t	+	0	0	t	+	7. +	17+
Texas	253	–	–	1.	3	1.	3	t	+	t	+	1.–	2	3. +	8+
Okla.	3,120	t	+	1.	32	1.	32	–	–	t	+	–	–	2. +	64+
Mont.	1,540	t	+	3.	49	2.5	40	t	+	t	+	t	+	5.5+	89+
Wyo.	1,008	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Colo.	4,674	–	–	.5	24	1.	47	–	–	–	–	–	–	1.5	71
N.Mex.	630	–	–	.5	3	1.	6	–	–	–	–	–	–	1.5	9
Ariz.	680	t	+	t	+	1.	10	25.	242	4	39	–	–	30. +	291+
Utah	685	t	+	t	+	1.	7	–	–	t	+	–	–	1. +	7+
Nev.	304	–	–	–	–	1.	3	–	–	–	–	–	–	1.	3
Ida.	4,256	t	+	t	+	2.	89	–	–	t	+	2.–	88	4. +	177+
Wash.	3,883	t	+	t	+	1.	39	–	–	–	–	–	–	1. +	39+
Ore.	2,576	t	+	t	+	1.	26	t	+	t	+	–	–	1. +	26+
Calif.	28,750	t	+	t	+	1.	290	t	+	t	+	–	–	1. +	290+
U. S.	202,024	.4	786	.7	1,385	.9	1,992	.1	242	1.7	3,628	.8	1,714	4.6	9,747

OATS

Estimated reduction in yield of oats due to loose and covered smuts (*Ustilago avenae* and *U. levis*), stem rust (*Puccinia graminis*), crown rust (*Puccinia coronata*), and other diseases, 1920.

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Loose and covered smuts %	Loose and covered smuts Bushels 000 omitted	Stem rust %	Stem rust Bushels 000 omitted	Crown rust %	Crown rust Bushels 000 omitted	Other diseases %	Other diseases Bushels 000 omitted	All diseases %	All diseases Bushels 000 omitted
Me.	4,974	–	–	–	–	–	–	–	–	–	–
N. H.	546	2.	11	–	–	–	–	–	–	2.	11
Vt.	2,835	3.	89	t	+	1.	29	–	–	4. +	118+
Mass.	518	1.5	8	t	+	t	+	–	–	1.5+	8+
R. I.	28	2.+	1	–	–	–	–	–	–	2. +	1
Conn.	744	2.	15	–	–	–	–	–	–	2.	15
N. Y.	44,275	3.	1,398	t	+	t	+	2.	932	5. +	2,330+
N. J.	2,720	2.	55	–	–	t	+	–	–	2. +	55+
Pa.	45,825	3.	1,417	–	–	–	–	t	+	3. +	1,417+
Del.	198	2.	4	–	–	.5	1	1.	2	3.5	7
Md.	2,112	4.	88	–	–	t	+	.5	11	4.5+	99+
Va.	4,818	4.	201	–	–	t	+	–	–	4. +	201+
W. Va.	5,400	5.	290	t	+	2.	116	t	+	7. +	406+
N. C.	3,960	5.	220	–	–	5.	220	–	–	10.	440
S. C.	10,416	5.	560	–	–	2.	224	–	–	7.	784
Ga.	11,550	3.	373	2.	248	2.	248	–	–	7.	869
Fla.	1,020	–	–	–	–	–	–	–	–	–	–
Ohio	71,339	2.	1,486	–	–	t	+	2.	1,486	4. +	2,972+
Ind.	76,875	3.	2,378	t	+	t	+	–	–	3. +	2,378+
Ill.	161,950	5.	9,098	t	+	1.	1,820	5.	9,098	11. +	20,016+
Mich.	56,430	2.	1,163	–	–	1.	582	–	–	3.	1,745
Wis.	107,878	1.	1,118	.5	559	1.	1,118	1.	1,118	3.5	3,913
Minn.	126,488	1.5	1,966	1.	1,311	t	+	1.	1,311	3.5+	4,588+
Iowa	229,866	1.5	3,536	.5	1,179	.5	1,179	t	+	2.5+	5,894+
Mo.	54,138	3.	1,674	–	–	–	–	–	–	3.	1,674

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Loose and covered smuts %	Loose and covered smuts Bushels 000 omitted	Stem rust %	Stem rust Bushels 000 omitted	Crown rust %	Crown rust Bushels 000 omitted	Other diseases %	Other diseases Bushels 000 omitted	All diseases %	All diseases Bushels (00 omitted
N. D.	59,640	2.	1,230	1.	615	t	+	t	+	3. +	1,845+
S. D.	75,446	1.5	1,293	10. +	8,623	t	+	1.	862	12.5+	10,778+
Nebr.	83,040	2.	1,695	–	–	–	–	–	–	2.	1,695
Kans.	68,799	2.	1,419	–	–	–	–	1.	709	3.	2,128
Ky.	8,225	2.	168	–	–	–	–	–	–	2.	168
Tenn.	8,225	3.	268	0	0	5.	447	t	+	8. +	715+
Ala.	6,551	3.	207	t	+	2.	138	–	–	5. +	345+
Miss.	4,012	3.	127	0	0	2.	84	0	0	5.	211
La.	1,380	1.	15	0	0	5.	73	–	–	6.	88
Texas	44,100	5.	2,450	4.	1,960	–	–	1.	490	10.	4,900
Okla.	48,000	3.	1,485	–	–	–	–	t	+	3. +	1,485+
Ark.	8,800	5.	506	0	0	5.	506	3.	303	13.	1,315
Mont.	16,800	6.	1,072	t	+	t	+	t	+	6. +	1,072+
Wyo.	11,400	–	–	–	–	–	–	–	–	–	–
Colo.	8,058	2.	164	t	+	–	–	–	–	2. +	164+
N. Mex.	2,278	2.	46	–	–	–	–	–	–	2.	46
Ariz.	481	5.	25	t	+	0	0	t	+	5. +	25+
Utah	3,143	5.	165	t	+	–	–	–	–	5. +	165+
Nev.	252	2.	5	t	+	–	–	–	–	2. +	5+
Ida.	8,000	2.	167	t	+	–	–	2.–	166	4. +	333+
Wash.	15,052	2.	307	–	–	0	0	–	–	2.	307
Ore.	12,045	1.	122	t	+	0	0	–	–	1. +	122+
Calif.	5,425	1.	58	5.	288	t	+	t	+	6. +	346+
U. S.	1,526,055	2.5	40,143	.9	14,783	.4	6,785	1.	16,488	4.8	78,199

CORN

Estimated reduction in yield of corn due to smut (*Ustilago zeae*), leaf rust (*Puccinia sorghi*), Physoderma (*Physoderma zeae-maydis*), root and ear rots (*Fusarium* spp.) and other diseases, 1920.

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Smut %	Smut Bushels (000 omitted)	Leaf rust %	Leaf rust Bushels (000 omitted)	Physoderma %	Physoderma Bushels (000 omitted)	Root and ear rots %	Root and ear rots Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases %	All diseases Bushels (000 omitted)
Me.	226	–	–	–	–	0	0	–	–	–	–	–	–
N. H.	405	–	–	–	–	0	0	–	–	–	–	–	–
Vt.	1,175	3.	36	–	–	0	0	0	0	–	–	3.	36
Mass.	840	.5	4	t	+	0	0	t	+	–	–	.5+	4+
R. I.	320	.5	2	–	–	0	0	t	+	–	–	.5+	2+
Conn.	1,804	.5	9	–	–	0	0	1.	18	–	–	1.5+	27+
N. Y.	32,595	1.	347	t	+	0	0	4.	1,387	1.	347	6. +	2,081+
N. J.	11,440	1.	122	–	–	–	–	5.	608	–	–	6.	730
Pa.	67,050	1.	753	–	–	0	0	10.	7,534	–	–	11.	8,287
Del.	7,125	1.	85	–	–	–	–	15.	1,272	–	–	16.	1,357
Md.	25,795	1.	274	–	–	–	–	5.	1,372	–	–	6.	1,646
Va.	50,100	1.	533	–	–	–	–	4.	2,132	1.	533	6.	3,198
W. Va.	22,100	1.–	225	–	–	–	–	1.	226	t	+	2. +	451+
N. C.	64,032	2.	1,472	–	–	1.	736	10.	7,360	–	–	13.	9,568
S. C.	42,370	2.	921	–	–	1.	460	5.	2,303	–	–	8.	3,684
Ga.	76,500	2.	1,663	t	+	1.	831	5.	4,158	–	–	8. +	6,652+
Fla.	10,530	–	–	–	–	–	–	–	–	–	–	–	–
Ohio	162,099	1.	1,743	–	–	–	–	5.	8,715	1.	1,743	7.	12,201
Ind.	184,072	2.	3,959	t	+	–	–	5.	9,896	–	–	7. +	13,855+
Ill.	294,168	2.	6,259	t	+	0	0	4.	12,518	–	–	6. +	18,777+
Mich.	65,000	.5	327	t	+	0	0	t	+	–	–	.5+	327+
Wis.	86,044	t	+	t	+	0	0	.5	432	–	–	.5+	432+
Minn.	118,125	1.	1,193	t	+	0	0	t	+	t	+	1. +	1,193+
Iowa	473,800	1.	4,885	–	–	0	0	2.	9,769	–	–	3.	14,654
Mo.	198,880	2.	4,187	–	–	t	+	3.	6,280	–	–	5. +	10,467+

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Smut %	Smut Bushels (000 omitted)	Leaf rust %	Leaf rust Bushels (000 omitted)	Physoderma %	Physoderma Bushels (000 omitted)	Root and ear rots %	Root and ear rots Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases %	All diseases Bushels (000 omitted)
N. D.	17,064	.5	87	t	+	0	0	1.	173	–	–	1.5	260
S. D.	105,600	1.	1,123	–	–	0	0	5.	5,617	–	–	6.	6,740
Nebr.	255,528	5.	14,196	–	–	t	+	5.	14,196	–	–	10. +	28,392+
Kans.	137,535	8.	13,418	–	–	–	–	10.	16,772	–	–	18.	30,190
Ky.	100,650	2.	2,236	–	–	t	+	8.	8,947	–	–	10 +	11,183+
Tenn.	93,100	1.	996	t	+	.5	498	5.	4,978	t	+	6.5+	6,472+
Ala.	67,149	1.	722	–	–	1.	722	5.	3,610	–	–	7.	5,054
Miss.	63,680	1.	688	1.	688	.5	344	5.+	3,443	–	–	7.5+	5,163+
La.	36,595	.5	197	1.	396	1.	396	5.	1,978	–	–	7.5	2,967
Texas	174,200	2.	3,573	–	–	–	–	.5	893	t	+	2.5+	4,466+
Okla.	89,320	2.	1,880	–	–	–	–	3.	2,821	–	–	5.	4,701
Ark.	55,224	2.	1,194	–	–	.5	299	5.	2,985	–	–	7.5	4,478
Mont.	3,580	t	+	–	–	0	0	–	–	t	+	+	+
Wyo.	1,560	t	+	–	–	0	0	–	–	–	–	+	+
Colo.	17,450	5.	918	–	–	0	0	–	–	–	–	5.	918
N.Mex.	7,155	2.	146	–	–	0	0	–	–	–	–	2.	146
Ariz.	644	5.	34	–	–	0	0	–	–	–	–	5.	34
Utah	521	1.	5	–	–	0	0	–	–	–	–	1.	5
Nev.	33	t	+	–	–	0	0	–	–	–	–	+	+
Ida.	1,800	t	+	–	–	0	0	–	–	–	–	+	+
Wash.	2,808	t	+	–	–	0	0	t	+	–	–	+	+
Ore.	1,426	t	+	0	0	0	0	t	+	–	–	+	+
Calif.	3,150	2.	64	–	–	0	0	t	+	–	–	2. +	64+
U. S.	3,232,367	2.04	70,477	.03	1,084	.12	4,286	4.12	142,393	.08	2,623	6.39	220,862

POTATO

Estimated reduction in yield of potatoes due to mosaic, leaf roll, late blight (*Phytophthora infestans*), Rhizoctonia (*Rhizoctonia solani*), and black leg (*Bacillus atrosepticus*), 1920.

State	Production 1920 Bushels 000 omitted	Estimated reduction in yield due to disease									
		Mosaic		Leaf roll		Late blight		Rhizoctonia		Black leg	
		%	Bushels 000 omitted	%	Bushels 000 omitted	%	Bushels 000 omitted	%	Bushels 000 omitted	%	Bushels 000 omitted
Me.	22,140	7.	2,279	2.	651	20.	6,512	1.	326	t	+
N. H.	1,950	8.	230	1.	29	20.	575	1.	29	.2	6
Vt.	3,510	8.	493	2.	123	30.	1,847	t	+	0	0
Mass.	4,000	8.	427	1.	53	15.	800	t	+	t	+
R. I.	345	3.	13	1.	4	15.	66	t	+	t	+
Conn.	2,760	3.	100	1.	33	10.	333	1.	33	t	+
N. Y.	46,250	1.5	934	1.5	934	15.	9,337	1.	622	t	+
N. J.	14,820	3.	631	2.	420	5.	1,051	5.	1,051	t	+
Pa.	36,455	1.	736	10.	7,365	25.	18,412	3.	2,209	.5	368
Del.	1,166	2.	27	–	–	3.	41	4.	54	t	+
Md.	6,120	1.	74	2.	147	10.	737	2.	147	t	+
Va.	13,608	t	+	2.	289	1.	145	2.	289	t	+
W. Va.	6,840	t	+	2.	157	10.	786	t	+	t	+
N. C.	5,040	1.	59	2.	117	1.	59	4.	234	t	+
S. C.	3,100	1.	34	–	–	–	–	4.	136	t	+
Ga.	1,628	20.	486	5.	122	–	–	5.	122	t	+
Fla.	2,625	–	–	–	–	1.	29	–	–	0	0
Ohio	11,500	1.	153	2.	307	10.	1,533	1.	153	t	+
Ind.	7,680	t	+	t	+	0	0	.5	42	t	+
Ill.	8,775	t	+	1.	98	0	0	.5	49	t	+
Mich.	35,700	1.	413	t	+	1.	413	3.	1,238	.5	206
Wis.	33,264	t	+	t	+	1.	360	2.	719	.3	108
Minn.	28,025	2.	648	t	+	t	+	2.	648	1.5	486
Iowa	11,440	t	+	–	–	0	0	–	–	t	+
Mo.	7,790	–	–	–	–	0	0	–	–	t	+

State	Production 1920 Bushels 000 omitted	Estimated reduction in yield due to disease.									
		Mosaic		Leaf roll		Late blight		Rhizoctonia		Black leg	
		%	Bushels 000 omitted	%	Bushels 000 omitted	%	Bushels 000 omitted	%	Bushels 000 omitted	%	Bushels 000 omitted
N. D.	7,110	t	+	t	+	0	0	2.	159	1.5	119
S. D.	8,904	t	+	–	–	0	0	2.	200	1.	100
Nebr.	8,415	t	+	t	+	0	0	3.	294	t	+
Kans.	5,780	t	+	–	–	0	0	6.	381	1.	64
Ky.	6,435	1.	74	5.	370	t	+	3.	222	t	+
Tenn.	3,569	t	+	t	+	t	+	t	+	0	0
Ala.	3,216	6.	217	t	+	–	–	t	+	0	0
Miss.	1,392	6.	96	t	+	0	0	t	+	0	0
La.	1,755	10.	206	t	+	0	0	t	+	0	0
Texas	2,340	t	+	t	+	0	0	t	+	0	0
Okla.	3,318	t	+	t	+	0	0	t	+	0	0
Ark.	2,418	5.	134	t	+	0	0	t	+	t	+
Mont.	5,060	t	+	t	+	0	0	t	+	3.	160
Wyo.	3,375	–	–	–	–	0	0	2.	71	1.	35
Colo.	10,920	1.	117	–	–	0	0	1.	117	t	+
N.Mex.	475	–	–	–	–	0	0	–	–	0	0
Ariz.	450	–	–	–	–	0	0	10.	54	0	0
Utah	3,298	1.	39	t	+	0	0	2.	78	3.	116
Nev.	1,032	t	+	–	–	0	0	1.	13	3.	38
Ida.	7,380	1.	97	t	+	0	0	5.	486	3.	291
Wash.	8,680	t	+	–	–	t	+	10.	1,046	2.	209
Ore.	5,590	t	+	t	+	3.	221	10.	735	1.	74
Calif.	13,015	t	+	–	–	t	+	8.	1,352	t	+
U. S.	430,458	1.6	8,717	2.	11,219	7.9	43,257	2.	13,309	.4	2,380

POTATO (Continued)

Estimated reduction in yield of potatoes due to Fusarium wilt (*Fusarium oxysporum*), tip burn, early blight (*Macrosporium solani*), and other diseases, 1920.

State	Production 1920 Bushels 000 omitted	Estimated reduction in yield due to disease. Fusarium wilt %	Fusarium wilt Bushels 000 omitted	Tip burn %	Tip burn Bushels 000 omitted	Early blight %	Early blight Bushels 000 omitted	Other diseases %	Other diseases Bushels 000 omitted	All diseases %	All diseases Bushels 000 omitted
Me.	22,140	0	0	t	+	t	+	2.	651	32. +	10,419+
N. H.	1,950	0	0	t	+	t	+	2.	57	32.2+	926+
Vt.	3,510	0	0	t	+	t	+	3.	185	43. +	2,648+
Mass.	4,000	0	0	t	+	t	+	1.	53	25. +	1,333+
R. I.	345	0	0	1.	4	t	+	1.	4	21. +	91+
Conn.	2,760	–	–	1.	33	t	+	1.	33	17. +	565+
N. Y.	46,250	.5	311	1.	622	.2	125	5.	3,112	25.7+	15,997+
N. J.	14,820	t	+	2.	420	2.5	526	10.	2,102	29.5+	6,201+
Pa.	36,455	3.	2,209	2.	1,473	2.	1,473	4.	2,946	50.5	37,191
Del.	1,166	1.	13	–	–	3.	41	1.	13	14. +	189+
Md.	6,120	t	+	–	–	1.	74	1.	74	17. +	1,253+
Va.	13,608	t	+	t	+	t	+	1.	145	6. +	868+
W. Va.	6,840	1.	79	t	+	t	+	t	+	13. +	1,022+
N. C.	5,040	2.	117	1.	59	t	+	3.	175	14. +	820+
S. C.	3,100	1.	34	t	+	1.	34	2.	68	9. +	306+
Ga.	1,628	t	+	t	+	1.	24	2.	48	33. +	802+
Fla.	2,625	–	–	–	–	5.	144	3.	87	9. +	260
Ohio	11,500	4.	613	t	+	2.	307	5.	767	25. +	3,833+
Ind.	7,680	2.	170	4.	339	t	+	3.	255	9.5+	806+
Ill.	8,775	2.	195	2.	195	1.5	146	3.	292	10. +	975+
Mich.	35,700	2.	825	3.	1,238	t	+	3.	1,238	13.5+	5,571+
Wis.	33,264	t	+	2.	719	.2	72	2.	719	7.5+	2,697+
Minn.	28,025	.5	162	2.5	810	t	+	5.	1,620	13.5+	4,374+
Iowa	11,440	–	–	10.	1,362	1.	136	5.	681	16. +	2,179+
Mo.	7,790	–	–	–	–	t	+	–	–	+	+

State	Production 1920 Bushels 000 omitted	Estimated reduction in yield due to disease. Fusarium wilt %	Fusarium wilt Bushels 000 omitted	Tip burn %	Tip burn Bushels 000 omitted	Early blight %	Early blight Bushels 000 omitted	Other diseases %	Other diseases Bushels 000 omitted	All diseases %	All diseases Bushels 000 omitted
N. D.	7,110	4.	318	1.	79	t	+	2.	159	10.5+	834+
S. D.	8,904	4.	400	–	–	t	+	4.	400	11. +	1,100+
Nebr.	8,415	6.	587	–	–	t	+	5.	489	14. +	1,370+
Kans.	5,780	t.	+	2.	127	t	+	t	+	9. +	572+
Ky.	6,435	1.	74	–	–	2.	148	1.	74	13. +	962+
Tenn.	3,569	t	+	t	+	4.	149	t	+	4. +	149+
Ala.	3,216	t	+	t	+	3.	108	2.	72	11. +	397+
Miss.	1,392	t	+	t	+	3.	48	4.	64	13. +	208+
La.	1,755	0	0	1.	21	t	+	4.	83	15. +	310+
Texas	2,340	1.	24	–	–	1.	24	1.	24	3. +	72+
Okla.	3,318	–	–	–	–	t	+	1.	34	1. +	34+
Ark.	2,418	3.	81	–	–	t	+	2.	54	10. +	269+
Mont.	5,060	2.	106	t	+	0	0	t	+	5. +	266+
Wyo.	3,375	–	–	–	–	.5	18	1.	35	4.5	159
Colo.	10,920	2.	234	–	–	.5	58	2.	233	6.5+	759+
N.Mex.	475	–	–	–	–	t	+	2.	10	2. +	10+
Ariz.	450	–	–	2.	11	3.	16	2.	11	17.	92
Utah	3,298	4.	155	1.	39	t	+	4.	155	15. +	582+
Nev.	1,032	10.	127	t	+	–	–	5.	64	19. +	242+
Ida.	7,380	5.	486	t	+	t	+	10.	971	24. +	2,331+
Wash.	8,680	t	+	–	–	0	0	5.	523	17. +	1,778+
Ore.	5,590	t	+	t	+	t	+	10.	735	24. +	1,765+
Calif.	13,015	10.	1,690	–	–	*–	–	5.	845	23. +	3,887+
U. S.	430,458	1.6	9,010	1.4	7,551	.7	3,671	3.7	20,360	21.7	119,474

SWEET POTATO

Estimated reduction in yield of sweet potatoes due to stem rot (*Fusarium hyperoxysporum* and *F. batatatis*), foot rot (*Plenodomus destruens*), black rot (*Sphaeronema fimbriatum*), storage rots, pox (*Cystospora batata*), and other diseases, 1920.

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Stem rot %	Stem rot Bushels (000 omitted)	Foot rot %	Foot rot Bushels (000 omitted)	Black rot (Field losses) %	Black rot Bushels (000 omitted)	Storage rot %	Storage rot Bushels (000 omitted)	Pox %	Pox Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases. %	All diseases. Bushels (000 omitted)
N. J.	2,002	12.	511	t	+	16.	682	25.	1,065	t	+	–	–	53. +	2,258+
Pa.	280	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Del.	1,024	15.	197	–	–	6.	79	–	–	1.	13	–	–	22.	289
Md.	1,386	10.	165	–	–	5.	82	–	–	1.	17	–	–	16.	264
Va.	4,032	8.	538	–	–	2.	134	30.	2,016	t	+	–	–	40. +	2,688+
W. Va.	238	–	–	–	–	–	–	–	–	–	–	–	–	–	–
N. C.	10,605	1.	166	–	–	10.	1,657	25.	4,142	–	–	–	–	36.	5,965
S. C.	9,240	1.	125	–	–	–	–	25.	3,121	–	–	–	–	26.	3,246
Ga.	13,764	t	+	–	–	5.	983	25.	4,916	0	0	–	–	30. +	5,899+
Fla.	4,275	t	+	–	–	–	–	–	–	–	–	–	–	+	+
Ohio	103	2.	2	–	–	–	–	–	–	–	–	–	–	2.	2
Ind.	360	1.	4	–	–	t	+	–	–	–	–	–	–	1. +	4+
Ill.	873	2.	18	–	–	1.	9	–	–	–	–	–	–	3.	27
Iowa	416	5.	22	–	–	–	–	–	–	–	–	–	–	5.	22
Mo.	1,430	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Kans.	540	10.	67	t	+	5.	34	5.	34	–	–	–	–	20. +	135+
Ky.	1,890	–	–	–	–	–	–	15.	334	–	–	–	–	15.	334
Tenn.	4,284	t	+	0	0	10.	659	25.	1,648	0	0	t	+	35. +	2,307+
Ala.	17,460	1.	236	–	–	5.	1,180	20.	4,719	–	–	–	–	26.	6,135
Miss.	11,330	1.	165	0	0	10.	1,654	20.	3,308	0	0	.5	83	31.5	5,210
La.	8,080	t	+	0	0	4.	455	25.	2,845	–	–	–	–	29. +	3,300+
Texas	9,345	t	+	–	–	5.	503	–	–	1.	100	1.	100	7. +	703+
Okla.	2,760	1.	28	–	–	2.	57	–	–	–	–	–	–	3.	85
Ark.	5,145	2.	107	–	–	2.	107	–	–	–	–	–	–	4.	214
N. Mex.	300	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Ariz.	150	–	–	–	–	–	–	5.	8	–	–	–	–	5.	8
Calif.	1,056	3.	33	–	–	2.	22	–	–	–	–	–	–	5.	55
U. S.	112,368	1.6	2,384	–	+	5.4	8,297	18.6	28,156	.1	130	.1	183	25.8	39,150

DRY BEANS

Estimated reduction in yield of dry beans due to anthracnose (*Colletotrichum lindemuthianum*), bacterial blight (*Bacterium phaseoli*), mosaic, root rots, and other diseases, 1920.

State	Production 1920 Bushels (000 omitted)	Estimated reduction in yield due to disease. Anthracnose %	Anthracnose Bushels (000 omitted)	Bacterial blight %	Bacterial blight Bushels (000 omitted)	Mosaic %	Mosaic Bushels (000 omitted)	Root rots %	Root rots Bushels (000 omitted)	Other diseases %	Other diseases Bushels (000 omitted)	All diseases %	All diseases Bushels (000 omitted)
N. Y.	1,260	10.	155	1.5	23	3.	46	1.+	16	3.	46	18.5+	286
Mich.	3,575	t	+	3.	111	t	+	–	–	–	–	3. +	111+
Colo.	504	0	0	–	–	–	–	–	–	–	–	–	–
N.Mex.	811	0	0	–	–	–	–	–	–	–	–	–	–
Ariz.	75	0	0	8	7	–	–	–	–	–	–	8.	7
Calif.	2,850	–	–	–	–	*–	–	–	–	–	–	–	–
U. S.	9,075	1.6	155	1.5	141	.5	46	.2	16	.5	46	4.3	404

COTTON

Estimated reduction in yield of cotton due to anthracnose (*Colletotrichum gossypii*), angular leaf spot (*Bacterium malvacearum*), Fusarium wilt (*Fusarium vasinfectum*), root knot (*Heterodera radicicola*), and other diseases, 1920.

State	Production 1920 Bales (000 omitted)	Estimated reduction in yield due to disease. Anthracnose %	Anthracnose Bales (000 omitted)	Angular leaf spot %	Angular leaf spot Bales (000 omitted)	Fusarium wilt %	Fusarium wilt Bales (000 omitted)	Root knot %	Root knot Bales (000 omitted)	Other diseases %	Other diseases Bales (000 omitted)	All diseases. %	All diseases. Bales (000 omitted)
Va.	19	5.	1	t	+	2.	+	t	+	–	–	7. +	1+
N. C.	840	15.	166	t	+	5.	55	1.	11	3.	33	24. +	265+
S. C.	1,530	8.	144	t	+	3.	54	1.	18	3.	54	15. +	270+
Ga.	1,400	5. +	83	2.	33	2.	33	3.	49	3.	49	15.	247
Fla.	18	–	–	–	–	–	–	–	–	–	–	–	–
Mo.	85	–	–	–	–	–	–	–	–	–	–	–	–
Tenn.	310	8.	27	t	+	t	+	0	0	t	+	8. +	27+
Ala.	660	2.	15	1.	7	5.	37	1.	7	1.	7	10. +	73
Miss.	885	3.	30	1.	10	5. –	49	t	+	2.	20	11. +	109+
La.	380	5.	23	1.	5	7.	32	t	+	5.	23	18. +	83+
Texas	4,200	1.	48	2.	95	.1	5	t	+	9.	430	12.1+	578+
Okla.	1,300	1.	14	–	–	t	+	–	–	5.	69	6. +	83+
Ark.	1,160	2.	28	3.	42	7.	98	1.	14	4.	56	17.	238
Ariz.	110	–	–	15.	21	*–	–	–	–	5.	7	20.	28
Calif.	75	–	–	–	–	*0	0	–	–	–	–	–	–
Others	15	–	–	–	–	–	–	–	–	–	–	–	–
U. S.	12,987	3.9	579	1.4	213	2.4	363	.7	99	5.	748	13.4	2,002

Estimated reduction in yield of peaches due to leaf curl (*Exoascus deformans*), brown rot (*Sclerotinia cinerea*), and other diseases, 1920

State	Production 1920	Estimated reduction in yield due to disease							
		Leaf curl		Brown rot		Other diseases		All diseases	
	Bus. (000 omitted)	%	Bus. (000 omitted)	%	Bus. (000 omitted)	%	Bus. (000 omitted)	%	Bus. (000 omitted)
N. H.	0	-	-	-	-	-	-	-	-
Mass.	4	t	+	-	-	-	-	+	+
R. I.	3	t	+	-	-	-	-	+	+
Conn.	10	t	+	t	+	-	-	+	+
N. Y.	2,307	2.	49	1.	24	3.	74	6.	147
N. J.	1,056	1.	12	10.	126	5.	63	16.	201
Pa.	1,744	5.	124	15.	374	10.	249	30.	747
Del.	248	10.	38	15.	57	10.	38	35.	133
Md.	897	10.	120	10.	120	5.	59	25.	299
Va.	1,470	1.	16	5.	81	3.	48	9.	145
W. Va.	992	1.	11	10.	115	3.	35	14.	161
N. C.	1,909	1.	23	10.	227	5.	114	16.	364
S. C.	1,110	1.	14	15.	211	5.	70	21.	295
Ga.	3,799	t	+	40.	2,763	5.	345	45.+	3,108+
Fla.	162	-	-	-	-	-	-	-	-
Ohio	2,241	1.	28	5.	142	15.	426	21.	596
Ind.	957	5.	52	1.	10	2.	21	8	83
Ill.	1,350	2.	29	1.	14	3.	43	6.	86
Mich.	1,500	3.	47	t	+	1.	16	4.+	63+
Iowa	135	10.	15	1.	1	-	-	11.	16
Mo.	789	2.	17	1.	9	5.	43	8.	69
Nebr.	5	0	0	t	+	1.	+	1.+	+
Kans.	70	0	0	t	+	2.	1	2.+	1+
Ky.	1,560	3.	68	25.	565	3.	68	31.	701
Tenn.	1,000	4.	49	10.	123	5.	62	19.	234
Ala.	1,508	4.	77	15.	290	3.	58	22.	425
Miss.	425	2.	11	15.	82	5.	27	22.	120
La.	-	0	0	25.	+	5.	+	30.	+
Texas	480	t	+	1.	5	5.	26	6.+	31+
Okla.	61	t	+	2.	1	5.	3	7.+	4+
Ark.	117	1.	1	2.	3	5.	6	8.	10
Colo.	585	-	-	-	-	-	-	-	-
N.Mex.	6	-	-	-	-	-	-	-	-
Utah	825	-	-	-	-	-	-	-	-
Ida.	40	2.	1	-	-	5.	2	7.	3
Wash.	423	2.	9	t	+	3.	13	5.+	22+
Ore.	100	3.	3	-	-	3.	3	6.	6
Calif.	13,800	5.	812	5.	812	5.	811	15.	2,435
U. S.	43,697	3.	1,626	11.4	6,155	5.	2,724	19.4	10,505

APPLE

Estimated reduction in yield of apples due to bitter rot (*Glomerella cingulata*), black rot (*Physalospora cydoniae*), blotch (*Phyllosticta solitaria*), and cedar rust (*Gymnosporangium juniperi-virginianae*), 1920.

State	Production 1920 Bus. (000 omitted)	Estimated reduction in yield due to disease. Bitter rot %	Bitter rot Bus. (000 omitted)	Black rot %	Black rot Bus. (000 omitted)	Blotch %	Blotch Bus. (000 omitted)	Cedar rust %	Cedar rust Bus. (000 omitted)
Me.	1,930	0	0	t	+	0	0	-	-
N. H.	1,320	0	0	t	+	0	0	-	-
Vt.	1,600	0	0	t	+	0	0	-	-
Mass.	3,680	t	+	1.5	61	0	0	t	+
R. I.	340	t	+	1.	4	0	0	t	+
Conn.	2,520	t	+	t	+	0	0	t	+
N. Y.	55,650	*0	0	1.	636	0	0	.5	318
N. J.	4,134	2.	93	t	+	t	+	1.	46
Pa.	23,937	1.	279	.5	139	1.	277	1.	277
Del.	1,017	-	-	-	-	t	+	t	+
Md.	3,330	1.	38	5.	188	.5	19	-	-
Va.	15,210	1.	185	3.	557	t	+	5.	927
W. Va.	7,000	1.+	87	3.	259	1.	86	1.+	87
N. C.	7,900	3.	416	5.	693	10.	1,386	8.	1,109
S. C.	1,482	3.	68	10.	228	8.	182	2.	46
Ga.	1,764	3.	69	5.	114	2.	46	t	+
Ohio	13,193	t	+	1.	149	1.	149	1.	149
Ind.	6,097	t	+	2.	133	1.	66	.2	14
Ill.	6,175	t	+	1.	75	4.	302	.2	15
Mich.	16,500	0	0	t	+	0	0	*0	0
Wis.	3,650	0	0	t	+	0	0	t	+
Minn.	1,462	0	0	t	+	0	0	1.	18
Iowa	4,410	0	0	-	-	t	+	t	+
Mo.	5,082	1.	63	3	188	4.	251	t	+
N. D.	-	0	0	-	-	0	0	*0	0
S. D.	323	0	0	-	-	t	+	t	+
Nebr.	750	0	0	t	+	3.	26	1.	9
Kans.	1,144	0	0	t	+	10.	145	t	+
Ky.	5,780	5.	425	3.	255	10.	850	1.	85
Tenn.	5,304	10.	947	1.	95	10.	947	1.	95
Ala.	1,260	3.	53	2.	35	10.	175	*-	-
Miss.	126	3.	5	2.	3	5.	8	.5	1
La.	-	*-	-	-	-	*-	-	*0	0
Texas	351	t	+	1.	4	5.	19	*0	0
Okla.	548	-	-	1.	6	8.	53	*0	0
Ark.	3,620	2.	86	.5	21	5.	216	.5	21
Mont.	1,155	0	0	0	0	0	0	0	0
Wyo.	-	0	0	-	-	0	0	0	0
Colo.	2,760	0	0	t	+	0	0	-	-
N.Mex.	566	0	0	t	+	0	0	0	0
Ariz.	100	0	0	-	-	0	0	0	0
Utah	918	0	0	0	0	0	0	0	0
Nev.	-	0	0	-	-	0	0	0	0
Ida.	3,631	0	0	-	-	0	0	0	0
Wash.	13,420	0	0	t	+	0	0	0	0
Ore.	3,300	0	0	t	+	0	0	0	0
Calif.	6,003	0	0	t	+	0	0	0	0
U. S.	240,442	1.	2,812	1.3	3,843	1.8	5,203	1.1	3,217

Estimated reduction in yield of apples due to fire blight (*Bacillus amylovorus*), scab (*Venturia inaequalis*), and other diseases, 1920.

State	Estimated reduction in yield due to disease.									
	Fire blight		Scab		Sum of traces and no data for six diseases		Other diseases		All diseases.	
	%	Bus. (000 omitted)	%	Bus. (000 omitted)	%	Bus. (000 omitted)	%	Bus. (000 omitted)	%	Bus. (000 omitted)
Me.	–	–	8.	171	–	–	2.	43	10. +	214+
N. H.	t	+	10.	148	.2	3	1.	15	11.2+	166+
Vt.	1.	18	7.	123	.2	3	1.	18	9.2+	162+
Mass.	1.	41	7.	286	.5	20	t	+	10. +	408+
R. I.	.5	2	3.	11	1.	4	2.	7	7.5+	28+
Conn.	.5	13	3.	81	1.	27	2.	54	6.5+	175+
N. Y.	1.	636	5.	3,180	–	–	5.	3,180	12.5	7,950
N. J.	.5	23	5.	232	.5	23	2.	93	11. +	510+
Pa.	2.	553	6.	1,660	–	–	2.	553	13.5	3,736
Del.	t	+	5.	57	4.	46	2.	23	11. +	126+
Md.	1.	38	3.5	131	.5	19	–	–	11.5+	433+
Va.	t	+	4.	742	–	–	5.	927	18. +	3,338+
W. Va.	t	+	8.	691	–	–	5.	432	19. +	1,642+
N. C.	5.	693	10.	1,386	–	–	2.	277	43.	5,960
S. C.	5.	114	5.	114	–	–	2.	46	35.	798
Ga.	5.	114	5.	114	–	–	3.	69	23. +	526+
Ohio	.5	75	5.	745	–	–	3.	447	11.5+	1,714+
Ind.	0	0	3.	199	–	–	2.	133	8.2+	545+
Ill.	t	+	8.	604	–	–	5.	377	18.2+	1,373+
Mich.	1.	185	8.	1,483	–	–	2.	371	11. +	2,039+
Wis.	10.	451	7.	315	–	–	2.	90	19. +	856+
Minn.	5.	88	8.	140	1.	18	2.	35	17. +	299+
Iowa	2.	103	4.	205	3.	154	5.	256	14. +	718+
Mo.	.5	31	5.	314	.5	31	5.	314	19. +	1,192+
N. D.	2.	+	2.	+	–	–	1.	+	5.	+
S. D.	*–	–	15.	58	1.	4	1.	4	17. +	66+
Nebr.	t	+	5.	44	1.	9	5.	44	15. +	132+
Kans.	t	+	7.	101	1.	14	3.	44	21. +	304+
Ky.	t	+	10.	850	–	–	3.	255	32. +	2,720+
Tenn.	t	+	20.	1,894	–	–	2.	189	44. +	4,167+
Ala.	8.	140	3.–	52	–	–	2.	35	28.	490
Miss.	8.	13	1.5	2	–	–	2.	3	22.	35
La.	–	–	–	–	–	–	–	–	–	–
Texas	2.	8	0	0	–	–	3.	12	11. +	43+
Okla.	t	+	5.	33	–	–	3.	20.	17. +	112+
Ark.	1.	43	2.	86	–	–	5.	216	16.	689
Mont.	2.	24	2.	24	–	–	t	+	4. +	48+
Wyo.	–	–	–	–	5.	+	–	–	5.	+
Colo.	–	–	–	–	5.	145	–	–	5. +	145+
N.Mex.	t	+	–	–	12.	77	–	–	12. +	77+
Ariz.	10.	12	–	–	5.	6	–	–	15.	18
Utah	*–	–	0	0	5.	48	*–	–	5.	48
Nev.	1.	+	0	0	4.	+	–	–	5.	+
Ida.	2.	81	.5	20	–	–	8.	325	10.5	426
Wash.	t	+	.2	30	.8	119	9.	1,342	10. +	1,491+
Ore.	.5	21	15.	623	–	–	5.	207	20.5+	851+
Calif.	1.	67	.5	33	–	–	9.	604	10.5+	704+
U. S.	1.2	3,587	6.	16,982	.3	770	3.8	11,060	16.5	47,474

Estimated percentage reduction in yield of tomatoes due to Septoria blight (Septoria lycopersici), Fusarium wilt (Fusarium lycopersici), bacterial wilt (Bacillus solanacearum), early blight (Macrosporium solani), and other diseases, 1920. (Production figures not available.)

State	Estimated percentage reduction in yield due to disease.					
	Septoria blight	Fusarium wilt	Bacterial wilt	Early blight	Other diseases	All diseases
Me.	=	0	0	0	1.	1.
N. H.	-	0	0	*0	1.	1.
Vt.	-	0	0	0	1.	1.
Mass.	t	*0	0	t	2.	2. +
R. I.	t	0	0	t	2.	2. +
Conn.	t	0	0	t	2.	2. +
N. Y.	.7	t	0	.7	4.	5.4+
N. J.	8.	t	0	3.	5.	16. +
Pa.	1.	1.	0	3.	4.	9.
Del.	10.	5.	0	1.	5.	21.
Md.	40.	7.	0	.5	4.	51.5
Va.	30.	1.	t	1.	11.	43. +
W. Va.	5.	t	0	1.	5.	11. +
N. C.	10.	5.	5.	1.	4.	25.
S. C.	5.	10.	4.	-	6.	25.
Ga.	1.	65.	2.	-	10.	78.
Fla.	t	5.	5.	20.	10.	40. +
Ohio	4.	10.	0	5.	15.	34.
Ind.	4.	2.	0	.2	12.	18.2
Ill.	5.	2.	0	.5	10.	17.5
Mich.	3.	*0	0	.5	5.	8.5
Wis.	t	*0	0	t	4.	4. +
Minn.	t	0	0	0	5.	5. +
Iowa	5.	t	0	t	14.	19. +
Mo.	5.	5.	-	-	8.	18.
N. D.	t	t	0	0	t	+
S. D.	t	0	0	0	-	+
Nebr.	1.	-	0	0	-	1.
Kans.	5.	1.	0	0	1.	7.
Ky.	15.	5.	0	0	5.	25.
Tenn.	10.	10.	0	2.	2.	24.
Ala.	2.	20.	1.	3.	15.	41.
Miss.	3.	15.	1.	5.	15.	39.
La.	t	25.	2.	10.	10.	47. +
Texas	3.	1.	t	2.	7.	13. +
Okla.	3.	2.	t	-	4.	9. +
Ark.	5.	3.	1.	-	5.	14.
Mont.	0	0	0	-	-	-
Wyo.	0	0	0	-	-	-
Colo.	t	-	0	-	-	+
N.Mex.	0	-	0	-	-	-
Ariz.	0	-	5.	-	10.	15.
Utah	0	-	0	-	-	-
Nev.	0	-	0	0	8.	8.
Idaho	0	0	0	0	30.	30.
Wash.	0	0	0	0	13.	13.
Ore.	0	0	0	0	11.	11.
Calif.	-	3.	0	-	-	3.